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Subject: IMPORTANT - Compensation component values

Posted by [Wayne Parham](#) on Fri, 07 Sep 2001 07:49:45 GMT

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Here's a chart that shows the appropriate values of R1, R2 and C1 compensation components for the Pi crossover. The way it works is the level of attenuation shown in the "dB" column is what the circuit presents to the tweeter below mass rolloff. Above that, attenuation is removed at 6dB/octave. So if you use R1/R2/C1 values that give 10dB attenuation, the tweeter will be -10dB from crossover up to 6kHz, at 12kHz it will be -4dB and by 20kHz there is no attenuation at all.

| dB    | R1     | R2     | C1     |
|-------|--------|--------|--------|
| ===== |        |        |        |
| 6dB   | 12 ohm | 30 ohm | 0.47uF |
| 8dB   | 12 ohm | 20 ohm | 0.47uF |
| 10dB  | 16 ohm | 16 ohm | 0.47uF |
| 12dB  | 25 ohm | 16 ohm | 0.47uF |
| 14dB  | 30 ohm | 14 ohm | 0.33uF |
| 16dB  | 40 ohm | 12 ohm | 0.33uF |
| 18dB  | 50 ohm | 12 ohm | 0.22uF |
| 20dB  | 75 ohm | 12 ohm | 0.22uF |
| ===== |        |        |        |